What is claimed is:

1. A purification process for manufacturing a high pure acarbose uses alcohol for precipitation and separation, a strongly cation exchange chromatography and an immobilized enzyme affinity chromatography for purification and purifying an acarbose-containing fermentation broth to get a high pure acarbose.

2. The purification process of claim 1, wherein the strongly cation exchange chromatography uses a styrene divinylbenzene copolymer without methoxymethylmethacrylamide to be a resin matrix.

3. The purification process of claim 1, wherein the enzyme of the immobilized enzyme affinity chromatography uses α -amyloglucosidase(α -glucoamylase).

4. The purification process of claim 1, wherein the strongly cation exchange chromatography uses a cation exchange

resin containing 20-200 mg sugars/mL resin.

5. The purification process of claim 2, wherein further comprising a step after the strongly cation exchange chromatography uses a solvent, 0~2.0N ammonia solution, to manufacture a high pure acarbose.

6. The purification process as claim 3, wherein further comprising a step after the immobilized enzyme affinity chromatography uses a solvent, 55~75℃ distilled water, to manufacture a high pure acarbose.

7. The purification process as claim 1, wherein the purity of high pure acarbose is large than 95% (wt/wt) used to treat diabetes.

8. A purification process for purifying the acarbose comprising the steps of:

eliminating myselium from an acarbose-containing fermentation broth by centrifugation;

concentrating filtrate of the acarbose-containing fermentation broth to be consistency by a concenteration system;

adding adequate ethyl alcohol to the consistency and blending to be a solution;

taking an upper liquid from the solution by centrifugating;

concentrating the upper liquid to be a consistency by the concentrating system;

putting the consistency into ethyl alcohol to get a consistency liquid;

taking a sediment from the consistency liquid by centrifugating and solving the sediment by water to get an impure acarbose solution;

blending a strongly cation exchange resin with the acarbose solution to get a resin;

using sodium chloride solution to eliminate an impurity in

the resin;

using ammonia solution to eliminate an impurity in the resin; and

solving the resin with ammonia solution to get a high pure acarbose.

9. The purification process as claim 8, wherein the eliminating myselium from acarbose-containing fermentation broth step could use a filter to replace centrifugating.

10. The purification process as claim 8, wherein the purity of high pure acarbose is 60%(wt/wt).

11. A purification process for manufacturing a high pure acarbose comprising the steps of:

adjusting pH value of an impure acarbose;

adding an cation exchange resin into the impure acarbose to get a solution;

blending the solution and taking an upper liquid;

adding a strong cation exchange resin into the upper liquid to get a mixing solution;

mixing and shaking the mixing solution to make the strong cation exchange resin absorbing acarbose;

using sodium chloride solution to eliminate an impurity in the acarbose; and

using ammonia solution to elute the acarbose to get a high pure acarbose.

12. The purification process as claim 12, wherein after the adjusting pH value step adds a cation exchange resin containing 250 mg sugars/g resin.

13. The purification process as claim 12, wherein after taking the upper liquid adds a strong cation exchange resin containing 80 mg sugars/mL.

14. The purification process as claim 12, wherein the purity of

high pure acarbose is up 78%.

15. A purification process for manufacturing a high pure acarbose comprising the steps of:

adjusting pH value of an upper liquid from an impure acarbose mixing a strong cation exchange resin;

passing the upper liquid through a strong cation exchange resin column ;

washing the strong cation exchange resin in the column by deionized water till the absorbance of strong cation exchange resin being zero or steady;

getting an impure acarbose by using ammonia solution to elute the strong cation exchange resin;

concentrating the acarbose-containing fractions to be a volume by a concenteration system; and

using alcohol for extracting the impure acarbose to get a high pure acarbose.

16. The purification process as claim 16, wherein the flow velocity of passing the string cation exchange resin column is 2.5 mL/min.

17. The purification process of claim 16, wherein the ammonia solution gradient of ammonia solution for eluting the impure acarbose is 0.5~1.5N.

18. The purification process as claim 16, wherein the purity of high pure acarbose is up 85%.

19. A purification process for manufacturing a high pure acarbose comprising the steps of:

solving a powder of acarbose, which the purity is 83%~87%, by distilled water to be a solution;

adjusting pH value of the solution ;

passing the solution through α -amyloglucosidase column;

washing the α -amyloglucosidase column by using a times deionied water volume as the volume of the α

-amyloglucosidase column;

eluting an acarbose from the α -amyloglucosidase column by distilled water;

concentrating the acarbose-containing fractions to be a volume by a concenteration system; and

using alcohol for precipitating the impure acarbose to get a high pure acarbose.

20. The purification process of claim 20, wherein the flow velocity of passing the α -amyloglucosidase column is 1.5 mL/min.

21. The purification process of claim 20, wherein the washing the α -amyloglucosidase column step uses two times deionized water volume as the volume of the α -amyloglucosidase column.

22. The purification process of claim 20, wherein washing the α -amyloglucosidase column by deionized water step

changes the flow velocity of passing the α -amyloglucosidase column being 210nm till the absorbance of the α -amyloglucosidase is steady.

23. The purification process of claim 20, wherein solving an impure acarbose from the α -amyloglucosidase column by distilled water, 65℃.

24. The purification process of claim 20, wherein the purity of the high pure acarbose is up 95%.